| • | Index of Claims  |            |       |               |                |        |         |           |              |          |            |           |          | Application/Control No. |                        |           |        |          |             |                 |           |              | Applicant(s)/Patent under Reexamination |               |           |           |           |              |           |              |        |          |   |
|---|------------------|------------|-------|---------------|----------------|--------|---------|-----------|--------------|----------|------------|-----------|----------|-------------------------|------------------------|-----------|--------|----------|-------------|-----------------|-----------|--------------|---|---------------|-----------|-----------|-----------|--------------|-----------|--------------|--------|----------|---|
|   |                  |            |       |               |                |        |         |           |              |          |            |           |          |                         | 09/638,075<br>Examiner |           |        |          |             |                 |           |              |   | HANAWA ET AL. |           |           |           |              |           |              |        |          |   |
|   |                  |            |       |               |                |        |         |           |              |          |            |           |          |                         | Rodney G. McDonald     |           |        |          |             |                 |           |              |   | 1753          |           |           |           |              |           |              |        |          |   |
|   | (Theough number) |            |       |               |                |        |         |           |              |          |            |           |          |                         |                        | 7         |        | Γ        |             |                 |           |              |   |               |           |           |           |              |           |              |        | 1        |   |
|   | √ Rejected       |            |       |               |                |        |         | Cancelled |              |          |            |           |          | era                     | '''                    | _         | N      | N        | Non-Elected |                 |           |              | A                                       | Appeal        |           |           |           |              | 4         |              |        |          |   |
|   | = Allowed        |            |       |               |                |        |         | ÷         | + Restricted |          |            | 1         |          | I Interfer              |                        |           | ere    | nce      |             | 0               | Objected  |              |   |               | d<br>     |           |           |              |           |              |        |          |   |
| [ | Ctaim Date       |            |       |               | te             | _      | _       |           |              | Claim    |            |           | _        |                         | Da                     | Date      |        |          | 7           | Claim           |           |              |   | Date          |           |           |           | _            |           | ]            |        |          |   |
|   | Final            | Original   | 19 30 |               |                |        |         |           |              |          | jedi       |           | Original |                         |                        |           |        |          |             |                 |           | Flnal        | Original                                |               |           |           |           |              |           |              |        |          |   |
| ļ |                  | 7          |       | $\dashv$      | +              | +      | ╁       | -         | $\vdash$     | Н        | $\vdash$   | $\dashv$  | 51       | $\dashv$                | +                      | $\pm$     | $\pm$  | L        |             |                 | Ⅎ         | $\vdash$     | 101                                     | Н             | $\exists$ | $\dashv$  | $\pm$     | +            | +         | +            | +      |          |   |
|   |                  | 2          | F     | $\Box$        | $\perp$        | Ŧ      | F       |           | Г            | П        | F          | 4         | 52<br>53 | 4                       | 7                      | 7         | Ŧ      | F        |             | $\Box$          | 7         |              | 102                                     | П             | $\Box$    | $\Box$    | 7         | 1            | 7         | 7            | $\bot$ |          |   |
|   |                  | 77 (4)     | 1     | $\vdash$      | +              | +      | ╁       | H         | $\vdash$     | Н        | E          |           | 54       | $\dashv$                | +                      | $\pm$     | $\pm$  | $\vdash$ |             | $\Box$          | 1         |              | 103                                     | Н             |           | +         | +         | +            | +         | $\pm$        | +      |          |   |
|   |                  | 5          | 2     |               | <b>—</b>       | Ţ      | $\perp$ |           | Г            | П        |            |           | 55       | 4                       | 4                      | $\top$    | T      | -        |             | $\Box$          | 7         |              | 105                                     | П             | $\Box$    | 4         | 7         | 7            | 7         | 7            | Ŧ      | ]        |   |
|   | -                | 6          |       | Н             | +              | ╁      | ╁       | ╁         | ╁╴           | Н        | $\vdash$   |           | 56<br>57 | $\dashv$                | +                      | +         | ╁      | +        | $\vdash$    | +               | $\dashv$  | <b>-</b>     | 106<br>107                              | H             | -         | ╅         | ╅         | ╅            | ╁         | ╁            | ╁      |          |   |
|   |                  | 8          |       |               | 1              | T      | 工       |           | L            | 口        |            | $\Box$    | 58       | $\Box$                  | $\Box$                 | 1         | 1.     |          |             |                 | 1         |              | 108                                     |               |           | $\Box$    | 1         | 1            | 1         | 1            | 丰      |          |   |
|   |                  | 9<br>10    | #-    | $\dashv$      | +              | +      | ╁       | H         | ╀╴           | Н        | $\vdash$   |           | 59<br>60 | ┥                       | ╁                      | ╫         | +-     | ╁        | ┝           | H               | $\dashv$  | $\vdash$     | 109<br>110                              | Н             | $\dashv$  | +         | ╬         | ┽            | +         | +            | +-     | -        |   |
|   |                  | 11         |       | ╛             |                | İ      | 仜       |           |              | 口        |            | $\neg$    | 61       | コ                       |                        | 1         | 工      |          |             |                 | ]         |              | 111                                     |               |           | 1         | #         | 士            |           | 1            | 士      | ]        |   |
|   |                  | 12         | 4     | $\dashv$      | +              | 4      | +       | L         | ╄            | Н        | -          |           | 62<br>63 | $\dashv$                | +                      | +         | +      | ╀        | ├-          | -               | -         | <del> </del> | 112<br>113                              |               | $\dashv$  | 4         | +         | +            | +         | +            | +      |          |   |
|   |                  | 13<br>14   |       | $\dashv$      | +              | ╁      | ╁       | ╁╴        | +            | Н        | $\vdash$   |           | 64       | ┪                       | $\dashv$               | 十         | +      |          | $\vdash$    | $\vdash$        | 1         |              | 114                                     | Н             | $\exists$ | $\dashv$  | +         | $\dagger$    | $\dagger$ | +            | 十      | 1        |   |
|   |                  | (15/       | ١     |               | $\bot$         | I      | $\perp$ |           | Γ            | 口        |            | $\Box$    | 65       | $\Box$                  | $\rightrightarrows$    | $\Box$    | T      | L        | L           | $\Box$          | 7         |              | 115                                     |               | $\Box$    | $\Box$    | $\Box$    | $\Box$       | $\Box$    | $\Box$       | 1      | }        | ļ |
|   |                  | 16<br>17   | 7     | Н             |                | ╬      | +       | ┝         | +            | Н        | $\vdash$   | $\dashv$  | 66<br>67 | $\dashv$                | +                      | ┿         | ┿      | ╁        | ╁╴          | $\vdash$        | $\dashv$  | <u> </u>     | 116<br>117                              |               | $\dashv$  | $\dashv$  | +         | +            | +         | +            | +      |          |   |
|   |                  | 18         | V     |               | 丰              | İ      | 上       |           | 厂            | 口        |            | コ         | 68       | ゴ                       | コ                      | 1         |        | I        |             |                 |           |              | 118                                     |               |           | コ         | コ         | コ            | #         | #            |        | ]        |   |
|   |                  | 19<br>20   | 2     | Н             |                | ┿      | ╀       | ┞         | ╀            | $\vdash$ | -          | +         | 69<br>70 | $\dashv$                | +                      | +         | +      | ╀        | ┝           | $\vdash$        | $\dashv$  | $\vdash$     | 119<br>120                              | ╁             | $\dashv$  | +         | $\dashv$  | ┽            | +         | +            | ╁      | }        | 1 |
|   |                  | 21         | 1     | H             | $\top$         | T      |         | H         |              |          |            |           | 71       | 士                       | $\exists$              | 士         | $\pm$  | $\perp$  | T           |                 |           |              | 121                                     |               |           | _         | $\exists$ | 士            | $\pm$     | 1            |        | <u>.</u> |   |
|   |                  | 22         | Ţ     | П             | $\blacksquare$ | Ţ      | 1       | Г         | F            | П        | · F        | 4         | 72       | $\Box$                  | $\downarrow$           | 4         | 4      | F        |             | $\Box$          | 7         |              | 122                                     |               | $\Box$    | $\dashv$  | $\dashv$  | $\dashv$     | 4         | 4            | $\bot$ | ]        |   |
|   | -                | (23)<br>24 | 上     | Н             |                | ╀      | +-      | ┝         | ╁            | Н        | -          | ┰         | 73<br>74 | ┪                       | +                      | +         | +      | ╁        | ╁           | ┼┼              | $\dashv$  |              | 123<br>124                              |               | $\dashv$  | +         | $\dashv$  | +            | +         | +            | ╁      |          |   |
|   |                  | 26         | Ē     |               | 丄              | 1      |         | 匚         | 匚            | 口        |            | ゴ         | 75       | コ                       | 1                      | #         | 工      | 二        |             |                 | ゴ         |              | 125                                     |               | $\Box$    | ゴ         | コ         | ightharpoons | #         | #            | 工      | · .      |   |
|   |                  | 26.<br>27  | =     | H             | -              | ╁      | ╀       | ┡         | ╀            | Н        | -          | 4         | 76<br>77 | $\dashv$                | +                      | +         | +      | ╀        | $\vdash$    | $\vdash$        | 4         |              | 126<br>127                              | Н             | $\dashv$  | $\dashv$  | +         | +            | +         | +            | ╁      |          |   |
|   |                  | 28         | 2     | H             | +              | +      | T       | ┢         | Ė            | Н        |            | $\exists$ | 78       | $\exists$               | 士                      | $\pm$     | 士      | t        |             |                 | _         |              | 128                                     |               |           |           | $\pm$     | 1            | $\top$    | 1            | 士      | <b>j</b> |   |
|   |                  | 30         |       |               | 1              | Ţ.     | $\perp$ | L         | L            | Н        | F          | $\perp$   | 79       | -                       | 4                      | 4         | 4      | -        | _           | $\vdash$        | 4         | $\vdash$     | 129                                     | $\vdash$      | $\dashv$  | 4         | 1         | 4            | 4         | 4            | +      | }        |   |
|   |                  | 30<br>31   | f     | H             | 十              | ┿      | ╁╴      | ┢╌        | ╁┈           | Н        | $\vdash$   |           | 80<br>81 | $\dashv$                | +                      | $\dagger$ | +      | +        | ╁           | $\vdash$        | ┥         | -            | 130                                     | H             | $\dashv$  | +         | $\dashv$  | +            | +         | +            | ╅      | 1        |   |
|   |                  | 32         |       | П             | 4              | #      | 丰       |           | I            | 口        | F          |           | 82       | $\Box$                  | $\rightrightarrows$    | 7         |        | F        |             | $\Box$          |           |              | 132                                     |               |           | 4         | $\dashv$  | $\dashv$     | 7         | 7            | $\top$ | 1        |   |
|   |                  | 33         | 5     | Н             | -+-            | ┿      | ╂       | ┝         | ╁            | Н        | $\vdash$   |           | 83<br>84 | $\dashv$                | +                      | +         | +      | ╁        | ╁           | -               | ┨         | $\vdash$     | 133<br>134                              | Н             | Н         | $\dashv$  | +         | +            | +         | +            | ╬      | 1        |   |
|   |                  | 35-        |       |               |                | 1      |         | 匚         |              | 口        |            |           | 85       | コ                       | #                      | 1         |        | L        | L           |                 | 1         |              | 135                                     |               |           |           | $\Box$    | ユ            | 1         | ightharpoons |        | 1        |   |
|   |                  | 36<br>37   | 두     | H             | -              | +      | ╄       | ┞         | ╁            | Н        | $\vdash$   | $\dashv$  | 86<br>87 | $\dashv$                | +                      | +         | 4-     | ╀        | ╁           | $\vdash$        | 4         | -            | 136<br>137                              |               | $\vdash$  | +         | +         | +            | +         | +            | +      | 1        |   |
|   |                  | 38         | ╫     | H             | +              | +-     | +       | H         | t            | Н        |            | 1         | 88       | 7                       | $\dashv$               | $\dagger$ | +      | ╁        | t           | $\vdash$        | _         |              | 138                                     |               |           | $\dashv$  | $\dashv$  | +            | $\dagger$ | +            | +      | 1        |   |
|   |                  | 39         |       | П             | #              | Ţ      | $\top$  | Г         | L            | П        | F          | _         | 89       | 4                       | $\Box$                 | Ţ         | $\bot$ | F        | L           | $\Box$          | 7         |              | 139                                     |               | П         | $\exists$ | 4         | $\dashv$     | 4         | 4            | 1      |          |   |
|   |                  | 40         | 낞     | Н             | +              | ╁      | ╁╴      | ┝         | ╁            | Н        | -          | -         | 90<br>91 | $\dashv$                | +                      | $\dashv$  | ╌      | ╁        | $\vdash$    |                 | ┨         | -            | 140                                     | ╌             | Н         | $\dashv$  | +         | +            | +         | +            | ┿      | 1        |   |
|   |                  | 42         |       | Ħ             | 丰              | #      | 1       |           | L            | 口        |            | #         | 92       | 耳                       | 1                      | 丰         | #      | 1        | 匚           | 口               | コ         |              | 142                                     |               | 口         | $\dashv$  | $\dashv$  | #            | 丰         | ユ            | 丰      | ]        |   |
| • | _                | 43         | ├-    | $\vdash$      | +              | +      | +       | ┞         | $\vdash$     | H        | -          | $\dashv$  | 93<br>94 | $\dashv$                | +                      | +         | +      | ╀        | ╀           | $\vdash \vdash$ | $\dashv$  | -            | 143                                     |               | $\vdash$  | +         | +         | +            | +         | +            | +      |          |   |
|   |                  | 45.        |       | 廿             | 士              |        |         |           |              | 口        |            | 士         | 95       | 士                       |                        | 士         | $\pm$  | 上        |             | 廿               | 1         |              | 145                                     |               |           | 」         |           | $\exists$    | 土         | 士            | 土      | 1        |   |
| : |                  | 46         | F     | П             | Ŧ              | $\bot$ | F       | F         | F            | $\Box$   | F          | $\dashv$  | 96<br>97 | $\dashv$                | 4                      | $\bot$    | Ŧ      | F        | F           |                 | 4         |              | 146                                     |               | П         | $\dashv$  | Ţ         | -[           | $\bot$    | $\dashv$     | Ŧ.     |          |   |
|   |                  | 47         | -     | ${\mathbb H}$ | +              | +      | +       | $\vdash$  | +            | Н        | <b> </b> - | +         | 98       | $\dashv$                | $\dashv$               | +         | +      | +        | +           | $\vdash \vdash$ | $\dashv$  | <b>—</b>     | 148                                     |               | $\dashv$  | $\dashv$  | +         | +            | +         | +            | +      | 1        |   |
|   |                  | 49         |       | 口             | 1              | T      | I       |           |              | 口        |            |           | 99       | $\Box$                  | $\dashv$               | 7         | T      | T        |             |                 | $\exists$ |              | 149                                     | П             | 口         | コ         | $\Box$    | 1            | 1         | $\Box$       | $\bot$ | ]        |   |
|   |                  | 50         |       | Ш             |                |        |         | L_        | 丄            | Ш        | L          |           | 100      | _1                      |                        | ᆚ         |        | L        | 丄           | ᄔ               | ك         |              | 150                                     | Ш             | Ш         | ┵         |           | $\perp$      |           | _L           | Щ.     | J        | į |